## " ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE     |
|---------------------------|----------|--------|----------|
| FEE DETERMINATION         | Daviel   |        | 08/06-01 |
| O.I.P.E. CLASSIFIER       | ,        | 10/    | 8/15     |
| FORMALITY REVIEW          | TH       | 7118   | 19-11-01 |
| RESPONSE FORMALITY REVIEW |          |        |          |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | Ι | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| · | Restricted                 | 0 | Objected     |

|               |               |             |    |                         |          |          |               | ÷        | •        | •••     | •••••          | ••••         | ••••     | ••••     |
|---------------|---------------|-------------|----|-------------------------|----------|----------|---------------|----------|----------|---------|----------------|--------------|----------|----------|
|               | _             |             | _  |                         | -/       |          |               |          |          |         |                |              | _        | _        |
| Clain         | 1             |             | ۷. | À                       | 1        | ٠.       |               | Dat      | е        |         |                |              |          |          |
| 1-            | a             | 3           | ,  | $V_{\mathbf{k}}$        | .'(      | 7        |               |          |          | 1       | - 1            | ı            | - 1      |          |
| æ   €         | 5             | Z           | K  | Ų                       | ?        | ×        |               |          |          | 1       | f              | 1            |          |          |
| Final         | 51            | 5           | 4  | 7                       | 6        | b        |               |          |          | ١       | 1              |              |          |          |
|               | V             | J           | t  | ī                       | ×        | 7        |               |          | Н        | †       | 1              |              | $\dashv$ |          |
|               | 2             | ٨           | ╀  | X                       | 7        | Ŕ        | 7             | $\vdash$ | $\vdash$ | +       | 4              |              | $\dashv$ | _        |
|               | 3             | 4           | ╁  | 44                      | _        | H        | _             | <u> </u> | ⊢        | ╁       |                | -            |          | _        |
|               | _             | Ц           | 1  | 4                       | L        | Ц        |               | <u> </u> | L        | 4       | _              | 4            | _        |          |
| _             | 4             | Ц.          | 1  | Ц                       | L        | L        | _             | <u> </u> | L        | 4       | 4              | _            | _        |          |
|               | 5             | V           | 1. | Ш                       | 4        | L        | _             | _        | L        | 1       |                | _            | _        |          |
| -             | 6             |             | ľ  | V                       | ľ        | •        |               | L        | L        | $\perp$ |                |              |          |          |
|               | $\mathcal{L}$ | 4           | 7  | $\langle \cdot \rangle$ | X        | ì        |               |          |          |         |                |              |          |          |
| T             | 8             | 7           | 1  | J                       | 1        | ۸        |               |          | Г        | T       |                | ヿ            |          |          |
| $\neg$        | 9             | T           | 1  | Ū                       | 7        | T,       |               |          | Г        | +       |                | $\neg$       | 一        |          |
|               | ð             | H           | k  | 7                       | 7        | 4        | $\geq$        | -        | ┢        | +       | $\dashv$       | $\dashv$     | $\dashv$ |          |
|               | 1             | Н           | Æ  | 5                       | 1        |          |               | -        | ⊢        | +       | -              | -            | $\dashv$ |          |
|               |               | ₩           | 4  | •                       | 4        | -        | _             | -        | $\vdash$ | +       | $\dashv$       | -            | -        | _        |
| 1             | 4             | L           | ļ  | يا                      | Ø        | 1        | ۲.,           | <u> </u> | $\vdash$ | 4       | 4              | _            | _        |          |
|               | 3             | K           | 1  | <u>レ</u>                | μ        | کے       | $\leq$        | <u> </u> | L        | 4       | _              | _            | _        |          |
|               | 4             | 1           | 1  | 2                       | 1        | 1        |               | L        | L        | 1       | [              |              | !        |          |
| 1             | 5             | $\prod$     | ſ  | Γ                       | L        | Ű        | L             | L        | Ĺ        | _[      | _ [            | ]            | [        |          |
| 1             | 6             | П           | T  | Τ                       | Г        | Г        |               | <u> </u> | Γ        | T       | $\neg$         | $\neg$       | コ        |          |
|               | 7             | П           | 1  | 1                       | Г        | Г        | Ι             |          | Γ        | †       | $\neg \dagger$ | $\neg$       | ヿ        |          |
|               | 8             | Н           | t  | t                       |          | t        | $\overline{}$ | $\vdash$ | ┞        | +       | $\dashv$       | $\dashv$     | 一        |          |
| -             | 9             | ¥           | 4, | +                       | K        | Ь        | <u> </u>      | $\vdash$ | ⊢        | +       | $\dashv$       | $\dashv$     | ᆉ        |          |
|               |               | ŀ           | X  | ۲                       | V        | <u>_</u> | <b>/</b> _    | <u> </u> | ├-       | +       | -              | $\dashv$     | -        |          |
|               | 0             | $\subseteq$ | 1  | _                       | l        | _        |               | L        | L        | _       |                |              |          |          |
| 2             | 1             |             |    |                         |          |          |               |          |          |         |                |              | Ì        |          |
| 2             | ż             |             | T  |                         | Γ        |          |               |          |          | 1       |                |              |          |          |
|               | 23            | Г           | 1  |                         | T        |          |               | Г        | T        | 7       | 寸              | $\neg$       |          |          |
|               | 24            | H           | t  |                         | H        | _        | ┢╌            |          | ┪        | +       | _              |              |          |          |
|               | 25            | ↓           | +  |                         | H        | -        | $\vdash$      | $\vdash$ | ╁        | +       | -              |              | $\vdash$ |          |
|               |               |             | +  |                         | ŀ        |          | H             | ⊢        | ╀        | 4       |                |              |          |          |
|               | 6             | _           | 4  |                         | L        | _        | ┞-            | ⊢        | ┞        | 4       | _              | _            | _        | _        |
|               | 27            | L           | 4  |                         | Ŀ        | _        | _             |          | L        | 4       | _              |              |          |          |
|               | 8             | L           | 1  |                         | L        |          |               | L        | L        | ┙       |                |              |          |          |
| 2             | 9             |             | 1  |                         |          |          |               | ŀ        | 1        |         |                |              |          |          |
| $\square$     | 30            |             | T  |                         |          |          | I –           | Г        | Ī        |         |                |              |          |          |
| T:            | 31            | Г           | †  |                         | T        |          | T             | 1        | T        | 7       |                |              | $\Box$   | _        |
|               | 32            |             | †  |                         | t        |          |               | H        | t        | 7       |                | _            | -        |          |
|               | 33            |             | +  |                         | ۲        | -        | ╁             | $\vdash$ | ۲        | ┥       |                |              | $\dashv$ | _        |
|               | 34            | _           | +  |                         | $\vdash$ | _        | -             | +-       | +        | +       | -              |              | $\vdash$ | _        |
| _             |               | _           | +  |                         | ╀        | _        | -             | ⊢        | ╀        | 4       |                |              | $\vdash$ |          |
|               | 35            |             | 4  |                         | L        | _        | <u> </u>      | ┖        | L        | 4       |                |              | 니        |          |
| $\vdash$      | 36            | -           | 1  |                         | L        |          |               | $\vdash$ | L        | ┙       |                |              | Ш        |          |
|               | 37            |             |    |                         | L        |          | L             | L        | L        | J       |                |              |          |          |
| 1             | 38            | Γ           | 7  |                         | Γ        |          | Γ             | Γ        | Γ        | ٦       |                |              |          |          |
| t             | 39            | T           | 7  |                         | T        |          | T             | t        | T        | 7       | _              |              |          |          |
| $\vdash$      | 40            | -           | 1  |                         | t        |          | t             | T        | t        | ٦       |                | $\vdash$     | T        | Т        |
| -             |               | +-          | 4  |                         | ╀        | -        | +-            | ╁        | ╀        | 4       |                | $\vdash$     | -        | -        |
|               | 41            |             | _  | _                       | ¥        |          | $\perp$       | 4        | 1        | _       |                | _            | <u> </u> | <u> </u> |
|               | 12            |             |    |                         | ļ        |          | 1             | 1        | 1        |         |                | <u> </u>     | Ц        | L        |
| $\Box$        | 43            |             | _] |                         | ſ        |          | L             |          | 1        |         |                | L            | L        | L        |
| П             | 44            | ī           | ٦  |                         | T        |          | Τ             | Γ        | Τ        |         |                |              |          | Γ        |
|               | 45            |             | 7  |                         | t        |          | T             | 1        | Ť        | -       |                | Г            | П        | Т        |
| $\rightarrow$ | 46            | -           | -  | $\vdash$                | +        | -        | t             | +        | t        | ٦       | $\vdash$       | <del> </del> | t        | Н        |
|               | 47            |             | 4  | -                       | +        | _        | +             | +        | ╀        |         | -6             | $\vdash$     | $\vdash$ | ⊢        |
| -             |               |             | 4  | -                       | +        | _        | -             | +-       | +        | _       | ⊢              | ⊢            | $\vdash$ | ⊢        |
|               | 48            |             |    | $\vdash$                | +        |          | ╀             | $\perp$  | 1        | _       | -(-            |              |          | -        |
|               | 49            |             |    | L                       | ļ        |          | L             | $\perp$  | 1        |         | Ľ              | $\vdash$     | $\vdash$ | ot       |
| Ш             | 50            | L           |    | L_                      | 1        |          | 1             |          | 1        |         |                |              |          |          |

| Cla  | im       | Date     |          |              |          |          |          |                |          |          |              |  |  |
|--|----------|----------|----------|--------------|----------|----------|----------|----------------|----------|----------|--------------|--|--|
| <u> </u>   |          | П        |          |              |          | Ť        | _        | T              |          |          | $\neg$       |  |  |
| Finaf  | Original |          |          |              |          |          |          |                |          |          |              |  |  |
| =  | 51       |          |          |              |          |          |          | $\dashv$       |          | $\dashv$ |              |  |  |
| _  | 52       |          | -        |              |          | $\dashv$ | $\dashv$ |                |          |          |              |  |  |
| _  | 53       | $\dashv$ | _        |              |          |          | ᅥ        |                |          |          |              |  |  |
| <del>                                     </del> | 54       |          | $\dashv$ |              | Н        |          |          |                | _        |          |              |  |  |
|  | 55       |          |          |              |          |          |          | ~              |          |          | -            |  |  |
| _  | 56       |          |          |              |          |          |          |                |          |          |              |  |  |
|  | 57       |          |          | _            |          |          |          |                | _        |          |              |  |  |
| -  | 58       |          |          |              | _        |          |          |                |          |          |              |  |  |
|  | 59       |          |          |              |          |          |          |                |          |          |              |  |  |
| Г  | 60       |          |          |              |          |          |          |                |          |          |              |  |  |
| Г  | 61       |          |          |              |          |          |          |                |          |          |              |  |  |
|  | 62       |          |          |              |          |          |          |                |          |          |              |  |  |
|  | 63       |          |          |              |          |          |          |                |          |          |              |  |  |
| _  | 64       |          |          |              |          |          |          |                |          |          | $oxed{oxed}$ |  |  |
| _  | 65       | _        | _        |              |          |          |          |                |          | L        | <u> </u>     |  |  |
| _  | 66       | _        |          |              |          |          |          |                | _        |          | _            |  |  |
| <u> </u>   | 67       | $\perp$  |          | _            |          |          |          |                |          |          | <u> </u>     |  |  |
|  | 68       |          |          |              |          | _        |          | <u> </u>       |          | _        | <u> </u>     |  |  |
| <u> </u>   | 69       |          | _        |              |          |          |          |                |          | L        |              |  |  |
|  | 70       |          |          | _            | <u> </u> | _        |          |                |          |          |              |  |  |
|  | 71       |          | _        | _            | _        |          |          |                |          | L        |              |  |  |
|  | 72<br>73 | -        |          | _            | <u> </u> |          |          |                |          | -        |              |  |  |
| <u> </u>   | 74       |          |          | H            |          |          |          |                |          | ┝        | <u> </u>     |  |  |
| -  | 75       |          | _        | ┝            | $\vdash$ | -        |          | $\vdash$       | _        | $\vdash$ | _            |  |  |
| $\vdash$   | 76       |          | _        | ├            | ├        |          | -        | -              |          | $\vdash$ |              |  |  |
| -  | 77       |          | _        |              | H        |          | -        |                | _        |          |              |  |  |
|  | 78       |          |          |              | H        | $\vdash$ | _        |                |          | -        |              |  |  |
| $\vdash$   | 79       | _        | -        | -            | $\vdash$ | $\vdash$ |          |                |          |          | Ι-           |  |  |
|  | 80       | _        |          | T            |          |          |          | -              |          | _        | <u> </u>     |  |  |
| _  | 81       |          |          | Г            |          |          |          |                |          |          |              |  |  |
|  | 82       |          |          |              | Г        | Γ        |          |                |          |          |              |  |  |
|  | 83       |          |          |              |          |          |          |                |          |          |              |  |  |
|  | 84       |          |          | Ĺ            |          | <u>L</u> |          | L              |          |          | <u> </u>     |  |  |
|  | 85       |          |          |              | _        |          |          | <u></u>        | _        |          |              |  |  |
| L  | 86       | L        | L        | Ļ            | <u> </u> | _        |          |                |          |          | <u> </u>     |  |  |
| <u>_</u>   | 87       | _        | _        | ┡            | <u> </u> | _        |          | 1              |          | _        | _            |  |  |
| $\vdash$   | 88       | L        |          | <del> </del> | -        | <u> </u> |          |                | <u> </u> | L        | ▙            |  |  |
| $\vdash$   | 89       | _        | ļ        | -            | ├-       | <u> </u> | -        |                | L        | -        | ┡            |  |  |
|  | 90       | <u> </u> |          | -            | ┡        | -        | ┞        | <u> </u>       | <u>ا</u> | <b>├</b> | <del> </del> |  |  |
| -  | 91       | -        | _        | $\perp$      | 1        | $\vdash$ | -        | <u> </u>       |          | 1-       | ₋            |  |  |
| $\vdash$   | 92       |          | -        | ╀            | ┼-       | -        | ⊢        | ├              |          | ⊢        | ╀            |  |  |
| $\vdash$   | 93       | -        | $\vdash$ | $\vdash$     | $\vdash$ | -        | ├-       | ⊬              | ⊢        | ⊢        | 1            |  |  |
| $\vdash$   | 94       |          | <u> </u> | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$       | $\vdash$ | ╀        | $\vdash$     |  |  |
| $\vdash$   | 95       | ┡        | ┡        | ┡            | ╄        | -        | ├        | $\vdash$       | ⊢        | $\vdash$ | +            |  |  |
| $\vdash$   | 96       | $\vdash$ | ├-       | ┼-           | $\vdash$ | $\vdash$ | $\vdash$ | ⊢              | $\vdash$ | +        | ╁            |  |  |
| $\vdash$   | 97<br>98 | ⊢        | ╀        | +            | +        | $\vdash$ | $\vdash$ | $\vdash$       | $\vdash$ | ⊢        | ╀            |  |  |
| $\vdash$   | 98       |          | $\vdash$ | +-           | +-       | ┼        |          | <del>  -</del> | ├        | ₩        | $\vdash$     |  |  |

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| Final | Original   |          |          |               |          |              |           |                       |           |           |          |  |
|       | 101        |          |          |               |          |              | _         | _                     | _         | _         |          |  |
| _     | 102        | ٦        | _        | _             |          |              |           |                       |           |           |          |  |
|       | 103        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 104        |          |          |               |          |              |           | $\exists$             |           |           |          |  |
|       | 105        | $\Box$   | $\Box$   |               |          |              | ⅃         | $\Box$                |           | _]        |          |  |
|       | 106        | $\Box$   | _        | _             |          | Ш            | _         | _                     | $\dashv$  | _         |          |  |
|       | 107        | _        |          | _             |          |              | _         | _                     | 4         | $\dashv$  |          |  |
|       | 108        | _        | 4        | $\dashv$      |          | _            |           | -                     | -         | $\dashv$  |          |  |
| _     | 109<br>110 | -        |          | _             |          | Н            |           |                       |           | -         |          |  |
|       | 111        | $\vdash$ | -        | -             |          | 님            | -         | -                     | $\dashv$  | $\dashv$  |          |  |
|       | 112        | $\dashv$ |          | -             | -        | H            | -         | -                     | $\dashv$  | $\dashv$  |          |  |
|       | 113        | $\vdash$ |          | -             | H        | H            | -         | -                     | $\dashv$  | _         |          |  |
|       | 114        |          | 7        |               | -        | $\vdash$     | $\exists$ | $\dashv$              |           |           |          |  |
|       | 115        |          |          |               |          | П            | П         |                       | $\dashv$  |           |          |  |
|       | 116        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 117        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 118        |          |          | _             |          |              |           |                       |           | $\Box$    |          |  |
|       | 119        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 120        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 121        |          |          |               |          |              |           |                       |           | $\Box$    |          |  |
|       | 122        |          |          |               | L        |              |           |                       |           | $\exists$ |          |  |
| _     | 123        | Щ        | _        |               | <u> </u> | L            | Щ         | _                     | _         | _         |          |  |
|       | 124        | Ц        |          |               | <u> </u> | $oxed{oxed}$ | Щ         |                       | Щ         | _         |          |  |
|       | 125        | Н        |          |               | <u> </u> | _            | Щ         | Щ                     | $\square$ | 4         | _        |  |
|       | 126        | Н        |          |               | _        | <del> </del> | $\vdash$  | Н                     | Н         | $\dashv$  |          |  |
|       | 127<br>128 | Н        | Н        |               |          | -            | -         | H                     | Н         | $\dashv$  |          |  |
|       | 129        | Н        |          |               | $\vdash$ | $\vdash$     | $\vdash$  | $\vdash$              | Н         | Н         | -        |  |
| _     | 130        | H        | ۳        | -             | $\vdash$ |              |           |                       | -         | -         |          |  |
|       | 131        | П        |          |               | H        | T            |           | -                     |           |           | _        |  |
|       | 132        |          |          |               | ļ        | Г            | П         |                       | П         |           |          |  |
| _     | 133        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 134        |          |          |               |          |              |           |                       |           |           |          |  |
|       | 135        |          |          | L             | L        | <u></u>      | $\Box$    | $\bigsqcup_{i=1}^{n}$ | Ц         | $\Box$    |          |  |
|       | 136        |          |          |               | _        | L            |           |                       | Ш         |           |          |  |
|       | 137        |          |          | _             | _        | <u> </u>     |           | <u> </u>              | <u> </u>  |           |          |  |
|       | 138        |          |          | <u> </u>      | 1        | $\vdash$     | L         | H                     | $\vdash$  | H         | <u> </u> |  |
|       | 139        |          | -        | _             | 1        | $\vdash$     | $\vdash$  | H                     | $\vdash$  | H         | -        |  |
| _     | 140        | $\vdash$ | <u> </u> | ⊢             | $\vdash$ | $\vdash$     | -         | -                     | -         | <u> </u>  | $\vdash$ |  |
| _     | 142        | _        | -        | <u> </u>      | $\vdash$ | ├-           | -         | <u> </u>              | -         | -         | ⊢        |  |
|       | 143        |          | $\vdash$ | $\vdash$      | $\vdash$ | $\vdash$     | $\vdash$  | $\vdash$              | $\vdash$  | $\vdash$  | $\vdash$ |  |
|       | 144        | 1        |          | -             | +-       | +            |           | $\vdash$              | $\vdash$  |           | $\vdash$ |  |
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|       | 146        |          | -        | <del> -</del> | +-       | +-           | $\vdash$  | $\vdash$              |           |           | Н        |  |
| _     | 147        |          |          | ┢             | Ė        | H            | t         | H                     |           | Η         | $\vdash$ |  |
| -     | 148        |          | Г        | Т             | T        | t            | Т         | $\vdash$              | $\vdash$  | T         | Г        |  |
|       | 149        |          |          |               |          | ľ            |           |                       | L         |           |          |  |
|       | 150        |          |          |               |          |              | Γ         |                       |           |           | Ι.       |  |

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